



Baltimore County  
Fire Rescue Academy

## EMT – IV THERAPY TECHNICIAN QUIZ

- Which of the following describes the term “isotonic”?
  - A solution that has the same concentration of sodium as does the cell.
  - The natural tendency for substances to flow from an area of higher concentration to an area of lower concentration.
  - A solution that has a higher concentration of potassium than does the cell.
  - A solution that has a lower concentration of sodium than the cell.
- True or False: If you are using an over-the-needle catheter to start an IV on a pediatric patient, gauges of 20 to 26 are the best choice for insertions.
  - TRUE
  - FALSE
- EMT-Basics may monitor which of the following solutions?
  - Blood
  - Lidocaine Infusions
  - Total Parenteral Nutrition (TPN)
  - Packed Red Blood Cells
- In selecting an IV site, you should:
  - A. Avoid areas that have a round appearance.
  - Avoid areas where the vein crosses over the joint.
  - Generally use large, protruding veins.
  - Avoid veins that appear firm when palpated.
- True or false: If a hematoma appears to be controlled and the flow of the IV is not affected, monitor the IV site and leave the line in place.
  - TRUE
  - FALSE
- You need to administer 300 mL of Lactated Ringer's over 30 minutes. You have 1,000 mL of Lactated Ringer's on hand. Your administration set is 10 gtt/mL. How many gtt/min will you administer?
  - 100 gtt/min
  - 1 gtt/min
  - 10 gtt/min
  - 1000 gtt/min
- To avoid accidental needle sticks, the IV-Tech should:
  - Always recap needles as soon as possible after initiating IV cannulation.
  - Immediately dispose of sharps in an appropriate sharps container.
  - Ask driver to slow down when performing IV cannulation in a moving ambulance.
  - Hand the needle to your partner for disposal.
- \_\_\_\_\_ is an irritation of the vein that is not caused by infection. It occurs from the mere presence of a foreign body (the IV catheter) or the medication being administered.
  - Catheter shear
  - Phlebitis
  - Extravasation
  - Septicemia
- Advantages of a saline lock includes all of the following except:
  - May be substituted for IV RL KVO.
  - Can be readily converted to an IV set-up with tubing and fluid.
  - Provides an IV port for medication administration.
  - Is a readily accessible site for continuous fluid challenges.
- When puncturing the skin with an IV catheter device, the EMT-IV Tech should:
  - Enter the skin with the bevel up.
  - Insert the catheter with the bevel down at a 45-degree angle.
  - Enter the skin at a 90-degree angle until blood is observed in the flashback chamber.
  - Enter the skin at a 45-degree angle with the bevel down.